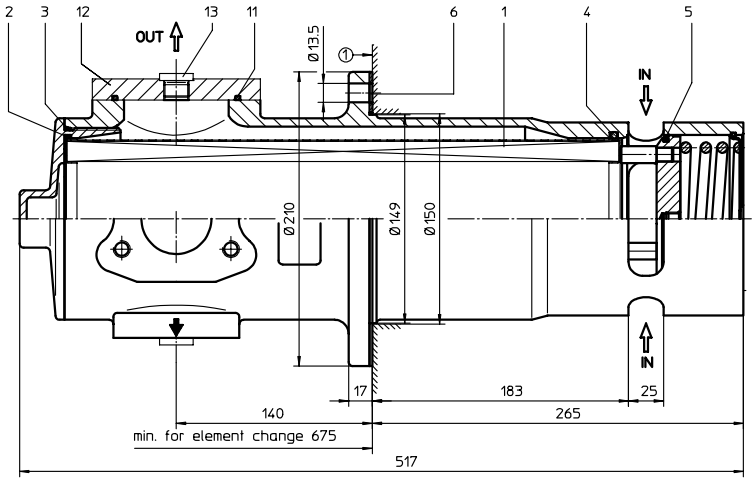
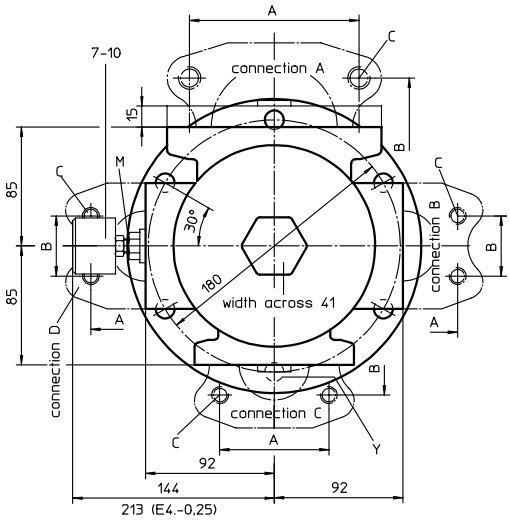
SUCTION FILTER
Series AS 632 DN 50 - 90

Sheet No.
1909 F





1. Type index:

1.1. Complete filter: (ordering example)

AS.	632.	40G.	-.	B.	P.	-.	FS.	11.	-.	O1
1	2	3	4	5	6	7	8	9	10	11

1 **series:**
AS = suction filter

2 **nominal size:** 632

3 **filter-material and filter-fineness:**
80 G= 80 µm, 40 G= 40 µm stainless steel wire mesh, other materials on request

4 **resistance of pressure difference for filter element:**
- = not specified

5 **filter element design:**
B = both sides open

6 **sealing material:**
P = Nitrile (NBR); V = Viton (FPM)

7 **filter element specification:**
- = standard; VA = stainless steel

8 **connection:**
FS = SAE-flange connection 3000 PSI

9 **no. of version:**

version		1	5	6	10	11	12	14	21
connection A	**type**	XY	XY	XY	FS	FS	FS	-	FS
	size				A1	A1	A1		A
connection B	**type**	Y	M	M	FS	FS	-	FS	Y
	size				8	9		8	
connection C	**type**	FS	FS	FS	Y	Y	Y	FS	Y
	size	8	9	9				8	
connection D	**type**	FS	FS	-	Y	M	M	FS	FS
	size	8	9					8	8

type: FS = SAE-flange 3000 PSI
M = adapter M18 x 1,5 - R 1/8
Y = drain M18 x 1,5
X = adapter SAE 3“ - M18 x 1,5
- = no connection

size: 8 = 2“
9 = 2 ½“
A = 3“
A1 = 3 ½“

10 **filter housing specification:**
- = standard

11 **clogging indicator:**
- = without
O1 = visual, see sheet-no. 1616
E4.-0,25 = pressure switch, see sheet-no. 1616

1.2. Filter element: (ordering example)

01AS.	631.	40G	-.	B	-.	-
1	2	3	4	5	6	7

1 **series:**
01AS. = suction filter element according to INTERNORMEN factory specification

2 **nominal size:** 631

3 - 5 , 7 see type index-complete filter

6 **sealing material:**
- = without

2. Dimensions:

connection size	2“	2 ½“	3“	3 ½“
dimension A	78	89	106,4	121
dimension B	43	51	62	70
thread C	M12, 18 deep	M12, 18 deep	M16, 22 deep	M16, 22 deep

3. Accessories:

- counter flange, see sheet-no. 1652

mounting area ①

surface quality 3,2

flatness tolerance ⏥ 0,2

weight: approx. 12 kg

Changes of measures and design are subject to alteration!

EDV 11/07

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4. Spare parts:

item	qty.	designation	dimension	article-no.	
1	1	filter element	01AS.631		
2	1	O-ring	115 x 3	303963 (NBR)	307762 (FPM)
3	1	O-ring	125 x 3	306025 (NBR)	307358 (FPM)
4	1	O-ring	115 x 5	306640 (NBR)	310287 (FPM)
5	1	O-ring	104,37 x 3,53	304339 (NBR)	304390 (FPM)
6	1	gasket	2 thick	305160	
7	1	adapter M18 x 1,5 - R 1/8	30505-4	317114	
8	2	gasket	A18 x 24x1,5	305136	
9	1	clogging indicator, visual	O1	301722	
10	1	clogging indicator, electrical	E4.-0,25	301725	
11	1	O-ring	85,32 x 3,53	305590 (NBR)	306308 (FPM)
12	1	adapter SAE 3“ - M18 x 1,5	30294-3	317048	
13	1	screw plug	M18 x 1,5	305193	

5. Description:

The filter element consists of a star-shaped pleated filter material which is supported on the inside by a perforated core tube and is bonded to the end caps.
INTERNORMEN-Filter elements are known as elements with a high intrinsic stability and an excellent filtration capability, a high dirt-retaining capacity and a long service life.
The AS-filters are horizotally or vertically mounted to the reservoir and connected directly to the suction-line.
Due to its practical design the suction filter is easy to service. When releasing the filter lid a plate valve closes the suction-inlet of the filter and prevents the return flow of dirt oil to the reservoir, respectively when mounted horizontally the flow out of the reservoir is prevented.
After the servicing respectively after changing the element the filter is again ready for operation.
According to the operating condition the filter could be equiped with different accessories (clogging indicators, counter flange etc.).

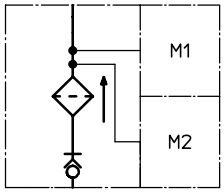
6. Technical data:

temperature range:	-10°C to + 80°C (for a short time + 100°C)
connection system:	SAE-flange connection 3000 PSI
installation position:	optional
housing material:	G-AlSi10Mg wa DIN 1725 (3.2381.61)
sealing material:	Nitrile (NBR) or Viton (FPM), other materials on request
usable for following fluids:	petroleum-based fluids, lubrication fluids; HW-emulsions and synthetic hydraulic fluids on request
volume tank:	6,3 l

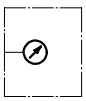
Classified under the Pressure Equipment Directive 97/23/EC for mineral oil (fluid group 2), Article 3, Para. 3.
Classified under ATEX Directive 94/9/EC according to specific application (see questionnaire sheet-no. 34279-4).

7. Symbols:

without indicator



visual O1



electrical E4

8. Pressure drop flow curves:

Precise flow rates see ‘INT-Expert-System Filter’, respectively Δp-curves; dependingon filter fineness and viscosity.

9. Test methods:

Filter elements are tested according to the following ISO standards:

ISO 2941 Verification of collapse/burst resistance
ISO 2942 Verification of fabrication integrity
ISO 2943 Verification of material compatibility with fluids
ISO 3723 Method for end load test
ISO 3724 Verification of flow fatigue characteristics
ISO 3968 Evaluation of pressure drop versus flow characteristics
ISO 16889 Multi-pass method for evaluating filtration performance